

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|---------------------|
| L1 | 2 | "20040148964" | US-PGPUB; USPAT | OR | OFF | 2011/09/20 09:26 |
| L2 | 1 | ("20030005722").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/20 09:33 |
| L3 | 28 | (US-20040261452-\$ or US-20020166336-\$ or US-20100206003-\$ or US-20060144081-\$ or US-20020157538-\$ or US-20040148964-\$ or US-20030005722-\$).did. or (US-5685170-\$ or US-6564580-\$ or US-7051553-\$ or US-6516631-\$ or US-5890378-\$ or US-4509967-\$ or US-6116050-\$ or US-7377127-\$ or US-6526777-\$ or US-6272882-\$ or US-5791160-\$ or US-4230533-\$ or US-4526657-\$ or US-3840437-\$ or US-3428528-\$ or US-5992175-\$ or US-6244070-\$ or US-4319330-\$).did. or (US-3397138-\$ or US-3322650-\$ or US-3224947-\$).did. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/20 10:23 |
| L4 | 3 | I3 and "JT" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/20 10:23 |
| L5 | 3 | I3 and ("JT" or "joule \$thompson") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/20 10:28 |
| S1 | 1 | (10/574671).APP. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/16 16:01 |

| | | | | | | |
|----|-----|---|---|----|-----|---------------------|
| S2 | 265 | (john and mak).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:01 |
| S3 | 50 | (("20020004534") or ("20040025535") or ("20040148964") or ("20040167371") or ("20040250569") or ("20040254412") or ("20040261452") or ("20050113467") or ("20060000234") or ("20070240450") or ("20080182999") or ("20080202162") or ("20080271480") or ("20090087368") or ("20090173103") or ("20090223804") or ("20090282864") or ("20100287982") or ("20100287985") or ("20110138854") or ("3607734") or ("3711569") or ("3904656") or ("3967937") or ("4212726") or ("4402795") or ("4831203") or ("4831204") or ("4831205") or ("4990712") or ("5019143") or ("5082990") or ("5315832") or ("5521264") or ("5546764") or ("5561988") or ("5681360") or ("5681908") or ("5786443") or ("6244070") or ("6395952") or ("6461413") or ("6483000") or ("6824682") or ("6837070") or ("7051553") or ("7069744") or ("7073350") or ("7216507") or | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/17 09:02 |

| | | | | | | | |
|----|----|--|---------------------------|----|-----|---------------------|--|
| | | | | | | | |
| S4 | 50 | <p>("7674444").PN.</p> <p>((20010052241") or ("20040148964") or ("20040261452") or ("20050204774") or ("20060150672") or ("20060260355") or ("20070157663") or ("20070240450") or ("20080271480") or ("20100024477") or ("20100206003") or ("20110036120") or ("4318723") or ("4451275") or ("4459142") or ("4474591") or ("4589896") or ("4617038") or ("4622053") or ("4846863") or ("4869740") or ("4889545") or ("4948404") or ("5275005") or ("5335504") or ("5555748") or ("5561988") or ("5588308") or ("5678424") or ("5685170") or ("5687584") or ("5724833") or ("5771712") or ("5799507") or ("5806339") or ("5881569") or ("5884504") or ("5983664") or ("5992175") or ("6116050") or ("6182469") or ("6453698") or ("6526777") or ("6662589") or ("7051553") or ("7069744") or ("7159417") or ("7191617") or ("7219513") or ("7257966").PN.</p> | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/17 09:03 | |

| | | | | | | |
|-----|-----|-----------------------------------|---|----|-----|---------------------|
| S5 | 274 | (62/612).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:16 |
| S6 | 180 | (62/611).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:16 |
| S7 | 733 | (62/618-620).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:17 |
| S8 | 135 | (62/621).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:18 |
| S9 | 189 | (62/623).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:18 |
| S10 | 248 | (62/628).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:18 |
| S11 | 347 | (62/630).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 09:18 |
| S12 | 1 | ("5685170").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/17 09:30 |
| S13 | 2 | ("6742358") or ("6564580").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/17 09:31 |

| | | | | | | |
|-----|------|--|--|-----|------|------------------|
| S14 | 35 | ("4157904" "4278457" "4473385" "4559070" "4657571" "4680042" "4687499" "4695303" "4695672" "4696688" "4698081" "4832718" "4851020" "4854955" "4869740" "4883515" "4889545" "5275005" "5325673").PN. OR ("5685170").URPN. | US_PGPUB; USPAT; USOCR | :OR | :OFF | 2011/09/17 09:35 |
| S15 | 1871 | (62/611,612,618-621,623,628,630).CCLS. | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | :OR | :OFF | 2011/09/17 09:40 |
| S16 | 27 | S15 and (adjust\$3 adj5 ratio) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | :OR | :OFF | 2011/09/17 09:40 |
| S17 | 18 | S15 and (adjust\$3 adj2 ratio) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | :OR | :OFF | 2011/09/17 09:41 |
| S18 | 1524 | (62/618-621,623,628,630).CCLS. | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | :OR | :OFF | 2011/09/17 09:46 |
| S19 | 0 | (10/595528).APP. | USPAT; USOCR | :OR | :OFF | 2011/09/17 09:56 |
| S20 | 5 | (("6516631") or ("5890378") or ("20040261452") or ("4509967") or ("20020166336")).PN. | US_PGPUB; USPAT; USOCR | :OR | :OFF | 2011/09/17 10:08 |

| | | | | | | |
|-----|-----|--|--|----|-----|------------------|
| S21 | 78 | ("20020166336" "20030005722" "20030158458" "20040079107" "2952984" "3292380" "3837172" "4061481" "4140504" "4157904" "4171964" "4185978" "4251249" "4278457" "4445917" "4519824" "4525185" "4545795" "4600421" "4617039" "4687499" "4689063" "4690702" "4707170" "4710214" "4755200" "4851020" "4854955" "4869740" "4889545" "4895584" "5114451" "5275005" "5291736" "5363655" "5365740" "5555748" "5566554" "5568737" "5600969" "5615561" "5651269" "5755114" "5755115" "5771712" "5799507" "5881569" "5890378" "5893274" "5983664" "6014869" "6023942" "6053007" "6062041" "6116050" "6119479" "6125653" "6182469" "6250105" "6269655" "6272882" "6308531" "6324867" "6336344" "6347532" "6363744" "6367286" "6526777" "6712880" "6742358" "RE33408").PN. OR ("7191617").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/09/17 10:12 |
| S22 | 265 | (john and mak).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 10:23 |
| S23 | 46 | S22 and cryo\$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/17 10:23 |

| | | | | | | |
|-----|------|---|---|----|-----|---------------------|
| S24 | 20 | S23 and ratio | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/17 10:28 |
| S25 | 6 | ("3322650").URPN. | USPAT | OR | OFF | 2011/09/19 10:22 |
| S26 | 30 | ("3322650" "3342702" "3361646" "3392088" "3411308" "3415720" "3420748" "3428527" "3428528" "3449215" "3619377" "3793157" "3840437").PN. OR ("3905873").URPN. | US_PGPUB; USPAT; USOCR | OR | OFF | 2011/09/19 10:29 |
| S27 | 11 | ("3224947").URPN. | USPAT | OR | OFF | 2011/09/19 10:33 |
| S28 | 623 | (231/1-3).CCLS. | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:46 |
| S29 | 0 | S28 and (adjust\$3 adj2 ratio) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:46 |
| S30 | 134 | (62/657).CCLS. | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:48 |
| S31 | 36 | S30 and ratio | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:48 |
| S32 | 1871 | (62/611,612,618- 621,623,628,630).CCLS. | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:57 |

| | | | | | | |
|-----|----|--|---|----|-----|---------------------|
| S33 | 20 | S32 and (control\$3 adj2 ratio) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/09/19 10:57 |
| S34 | 0 | (10/595528).APP. | USPAT; USOCR | OR | OFF | 2011/09/19 11:00 |
| S35 | 33 | ("3592015" "4171964" "4251249" "4278457" "4318723" "4350511" "4596588" "4617038" "4680042" "4687499" "4690702" "4692179" "4698081" "4851020" "4885063" "5275005" "5421165" "5566554" "5588306" "5600969" "5737940" "5779863"). PN. OR ("5992175"). URPN. | US_PGPUB; USPAT; USOCR | OR | OFF | 2011/09/19 11:02 |
| S36 | 17 | ("20020157538" "20030221447" "4157904" "4171964" "4278457" "4519824" "4689063" "4690702" "4854955" "5771712" "5992175" "6244070" "6354105" "6401486" "6425266" "6516631" "6823692").PN. OR ("7069744").URPN. | US_PGPUB; USPAT; USOCR | OR | OFF | 2011/09/19 11:09 |
| S37 | 10 | S35 and ratio | US_PGPUB; USPAT; USOCR | OR | OFF | 2011/09/19 11:14 |
| S38 | 1 | "11787803" | US_PGPUB; USPAT | OR | OFF | 2011/09/19 15:49 |

EAST Search History (Interference)

< This search history is empty>

9/20/2011 11:09:35 AM

C:\Documents and Settings\lbaldrige\My Documents\EAST\Workspaces\10574671.wsp